DANU

CERTIFICATE OF ANALYSIS

PRODUCT NAME:	Certified Organic CBD Tincture - Natural
PRODUCT STRENGTH:	450 mg
FILL LOT NUMBER:	**C0209-002**
TINCTURE BATCH:	21138A
BEST BY DATE:	11/18/2022
HEMP EXTRACT LOT	NA

Click on the links to view third-party reports

Physical Atttributes

Test	Method	Specification	Results
Color	SOP-100	Golden to Amber	PASS
Odor	SOP-100	Characteristic - Olive and hemp	PASS
Appearance	SOP-100	Golden to Amber oil in brown glass bottle with dropper	PASS
Primary Package Eval.	SOP-132	Container clean and free of filth. Container caps tight and shrink bands intact	PASS
Secondary Package Eval.	SOP-132	Labeling Compliance Checked, Cartons sturdy and clean. Sufficient cushion material exists. Box taped and secure.	PASS

Review of Third-Party Analysis

Panel	Method	Specification	Results*	Pass/Fail
Potency - Total CBD	SOP-111	450-562.5 mg CBD LOQ**: 10 PPM† (0.001%)	**464.2 mg**	PASS
Potency - D9-THC	SOP-111	None Detected LOQ: 10 PPM (0.001%)	**ND**	PASS
Compliant Pesticide Panel	SOP-111	WIP-100008 : Product specification for Tinctures, Oregon Action limits apply	**ND**	PASS
Microbial - Stec E.Coli	SOP-111	Complies with USP 61/62	**Below LOQ**	PASS
Microbial - Salmonella	SOP-111	Complies with USP 61/62	**Below LOQ**	PASS
Microbial - Yeast and Mold	SOP-111	Complies with USP 61/62	**Below LOQ**	PASS
CA Compliant Heavy Metal Panel	SOP-111	Arsenic (As): ≤1.5 PPM Cadmium (Cd): ≤0.5 PPM Mercury (Hg): ≤1.0 PPM Lead (Pb): ≤0.5 PPM	**ND**	PASS

* *Level of Quantitation, † Parts Per Million

Quality Certified — Kayla Kolber — 05/24/2021

Kayla Kolber
Quality Assurance Technician

Date

C0209 002

sample ID 25846

7USC1639 Certificate of Analysis

certificate ID
1BJ67

total cannabinoids **497.4mg** per 30 mL

THC‡ ND CBD‡ 464.2mg terpenes ND

This Product Has Been Tested and Complies with 7USC1639o(1)

Stillwater Laboratories

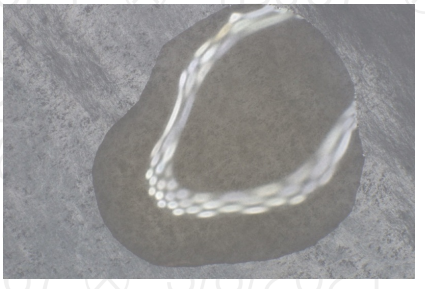
order 9806

analysis date 2/11/2021 12:21:52 PM

test tag

sample wgt

infused



Inspection MSP-7.5.1.2

DESCRIPTION: Concentrate sample received in a client-labeled bottle, by commercial courier. Labeled 25846.

Potency per 30 mL

	MSP-7.5.1.4	LOD	LOQ	error (95%CI k=2)
total CBD‡	464.2mg	1.64	4.92	±16.65mg
total CBD (CBD+CBDa)	464.2mg	1.64	4.92	±16.65mg
tetrahydrocannabolic acid (THCa)	ND	1.67	5.01	±5.01mg
Δ9-tetrahydrocannabinol (Δ9 THC)	ND	1.57	4.70	±4.70mg
Δ8-tetrahydrocannabinol (Δ8 THC)	ND	2.10	6.31	±6.31mg
tetrahydrocannabivarin (THCv)	ND	1.75	5.24	±5.24mg
cannabidiolic acid (CBDa)	ND	1.44	4.33	±4.33mg
cannabidiol (CBD)	464.2mg	1.65	4.96	±16.68mg
cannabidivarin (CBDv)	ND	1.65	4.94	±4.94mg
cannabigerolic acid (CBGa)	ND	1.48	4.43	±4.43mg
cannabigerol (CBG)	33.3mg	0.47	1.40	±2.24mg
cannabinol (CBN)	ND	0.90	2.71	±2.71mg
cannabichromene (CBC)	ND	1.64	4.92	±4.92mg

‡ = decarbed NT = not tested NL = no limit, ND = not detected, LOD = detection limit , LOQ = quantitation limit

Microbial MSP-7.5.1.10

		limit
Ochratoxin A	PASS	20 ppb
Aflatoxin	PASS	20 ppb

Solvents MSP-7.5.1.7

		limit
Acetone	PASS	5000 ppm
Acetonitrile	PASS	410 ppm
Benzene	PASS	0 ppm
Butane	PASS	5000 ppm
Chloroform	PASS	0 ppm
Cyclohexane	PASS	0 ppm
Ethanol	PASS	10000 ppm
Heptane	PASS	5000 ppm
Hexane	PASS	290 ppm
Isopropyl alcohol	PASS	5000 ppm
Methanol	PASS	3000 ppm
Pentane	PASS	5000 ppm
Propane	PASS	5000 ppm
Toluene	PASS	890 ppm
Xylenes	PASS	2170 ppm

Metals MSP-7.5.1.11

		limit
Arsenic	PASS	1500 ppb
Cadmium	PASS	500 ppb
Lead	PASS	500 ppb
Mercury	PASS	300 ppb

Pesticides MSP-7.5.1.8

		limit
Permethrin	PASS	20.00 ppm
Phosmet	PASS	0.20 ppm
Piperonylbutoxide	PASS	8.00 ppm
Prallethrin	PASS	0.40 ppm
Propiconazole	PASS	20.00 ppm
Propoxur	PASS	0.00 ppm
Pyrethrin	PASS	1.00 ppm
Pyridaben	PASS	3.00 ppm
Spinetoram	PASS	3.00 ppm
Spinosad	PASS	3.00 ppm
Spiromesifen	PASS	12.00 ppm
Spirotetramat	PASS	13.00 ppm
Spiroxamine	PASS	0.00 ppm
Tebuconazole	PASS	2.00 ppm
Thiacloprid	PASS	0.10 ppm
Thiamethoxam	PASS	4.50 ppm
Trifloxystrobin	PASS	30.00 ppm

Pesticides MSP-7.5.1.8

		limit
Abamectin	PASS	0.30 ppm
Acephate	PASS	5.00 ppm
Acequinocyl	PASS	4.00 ppm
Acetamiprid	PASS	5.00 ppm
Aldicarb	PASS	0.00 ppm
Azoxystrobin	PASS	40.00
Bifenazate	PASS	5.00 ppm
Bifenthrin	PASS	0.50 ppm
Boscalid	PASS	10.00
Carbaryl	PASS	0.50 ppm
Carbofuran	PASS	0.00 ppm
Chloantraniliprole	PASS	40.00
Chlorfenapyr	PASS	0.00 ppm
Chlorpyrifos	PASS	0.00 ppm
Clofentezine	PASS	0.50 ppm
Coumaphos	PASS	0.00 ppm
Cyfluthrin	PASS	1.00 ppm
Cypermethrin	PASS	1.00 ppm
Daminozide	PASS	0.00 ppm
Dichlorvos	PASS	0.00 ppm
Diazinon	PASS	0.20 ppm
Dimethoate	PASS	0.00 ppm
Etoxazole	PASS	1.50 ppm
Fenoxycarb	PASS	0.00 ppm
Fenpyroximate	PASS	2.00 ppm

Pesticides MSP-7.5.1.8

		limit
Fipronil	PASS	0.00 ppm
Flonicamid	PASS	2.00 ppm
Fludioxonil	PASS	30.00
Hexythiazox	PASS	2.00 ppm
Imazalil	PASS	0.00 ppm
Imidacloprid	PASS	3.00 ppm
Malathion	PASS	5.00 ppm
Metalaxyl	PASS	15.00
Methiocarb	PASS	0.00 ppm
Methomyl	PASS	0.10 ppm
Methyl parathion	PASS	0.00 ppm
Mevinphos	PASS	0.00 ppm
Myclobutanil	PASS	9.00 ppm
Naled	PASS	0.50 ppm
Oxamyl	PASS	0.20 ppm
Paclobutrazol	PASS	0.00 ppm
Permethrin	PASS	20.00

INSTRUMENTS
potency: HPLC (LC2030C-UV)
terpenes: GCMS (QP2020/HS20)
solvents: GCMS (QP2020/HS20)
pesticides: LCMSMS (LC8060)
mycotoxins: LCMSMS (LC8060)
microbial: qPCR (AriaMx) and plating
metals: ICPMS (ICPMS-2030)

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

Kyle Larson, MSc (Biology)
Deputy Director

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6073 US93N Suite 5
Olney MT 59927
406-881-2019

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ISO/IEC 17025:2017
ACCREDITED
Certificate #4961.01
https://portal.a2la.org/scopepdf/4961-01.pdf

certificate ID

1EP87

0TNAT450

7USC1639 Certificate of Analysis

21138A

rec'd 5/20/2021 12:40:23 PM order 10800

per

This Product Has Been Tested and Complies with 7USC1639o(1)

Stillwater Laboratories

per

Microbial

	MSP-7.5.1.10	limit	LOD	LOQ	error	result
E.coli	ND	0CFU	0.0	0.1	±0.1CFU	PASS
Salmonella sp.	ND	0CFU	0.0	0.1	±0.1CFU	PASS
molds	ND	10000CFU	1.8	5.5	±5.5CFU	PASS

SECURITY FEATURE: WATERMARK MUST MATCH CERTIFICATE ID AND ISSUE DATE

Certified by:

ASA PFC Laboratory

A2LA ACCREDITED

CERT #s 4961.01, 4961.02 & 4961.03

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406-881-2019

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INSTRUMENTS: Potency by HPLC (LC2030C-UV), solvents and terpenes by GCMS (QP2020/HS20), pesticides and mycotoxins by LCMSMS (LC8060), microbial by qPCR (AriaMx) and plating (Hardy Diagnostics), metals by ICPMS (ICPMS-2030)

• All testing was completed onsite at 6073 US93N, Olney MT •• Potency (cannabinoid concentration) is calcuated as: [cannabioid] = $[\text{cannabinoid}]_{HPLC} \times \text{volume}_{dilution}/m_{dry}$. ••• Decarboxyted cannabinoid concentration is calculated XXX_{total} = 0.877 x XXXa + XXX •••• Standards are used to calibrate the resulting data and estimate error using a standard estimate of error method; LOD is the limit of detection ($3.3s_i$), LOQ is the limit of quantification (3xLOD), and experimental error is calculated from weighing, dilution, and interpolation error using the formula $s_g^2 = \sum(\partial f/\partial i)^2 s_i^2$ where i is the contributor to error. The 95% confidence range is calculated from: (concentration) $\pm t_{CL90} \times s_g$. Sampling error is not considered in error calculations. ND = not detected (< LOD), NT = not tested, NL = no limit, NA = not applicable. ‡ = decarbed